

KUZNETSOV, Boris Aleksandrovich; CHEPICO, Anatoli; Zinov'evich;  
PETROVSKAYA, Lili; red., MARINA, Lili, tekhn. red.

[Zoology course. Kurs zoologii. Moskva, Sov.fizd-vo  
"Vysshaya shkola," 1967. 347 p. (MIRA 10:12)  
(Zoology)

TSIREL'SON, Noy Borisovich, prof.; PETROVSKAYA, L.P., red.;  
GOROKHOVA, S.S., tekhn. red.

[Principles of animal husbandry] Osnovy zhivotnovodstva.  
Izd.2. Moskva, Vysshaia shkola, 1962. 417 p.  
(MIRA 16:5)

(Stock and stockbreeding)

NAUMOV, Nikolay Pavlovich; PETROVSKAYA, L.P., red.; MURASHOVA, V.A.,  
tekhn. red.

[Animal ecology] Ekologiya zhivotnykh. 2., izd. perer. Mo-  
skva, Gos.izd-vo "Vysshaya shkola," 1963. 617 p.  
(MIRA 16:5)

(Zoology—Ecology)

SHILOV, Igor' Aleksandrovich; PETUKHAYSKAYA, L.P., red.; GRIGORCHIK,  
L. A., tekhn. red.

[Laboratory manual on the ecology of terrestrial vertebrates]  
Praktikum po ekologii nazemnykh pozvonochnykh zhivotnykh.  
Moskva, Gosizd-vo "Vysshaya shkola," 1961. 146 p.  
(MIRA 16:2)

1. Kafedra zoologii pozvonochnykh Moskovskogo gosudarstven-  
nogo universiteta (for Shilov).  
(Vertebrates) (Zoology--Laboratory manuals)

VESELOV, Yel'pidifor Alekseyevich; KUZNETSOVA, Ol'ga Nikolayevna;  
PETROVSKAYA, L.P., red.; GOROKHOVA, S.S., tekhn. red.

[Laboratory manual on zoology] Praktikum po zoologii. Moskva,  
Gos. izd-vo "Vysshaya shkola," 1962. 248 p. (MIRA 16:1)  
(Zoology--Laboratory manuals)

AKAYEVSKIY, A.I., prof.; BOGOLYUBSKIY, Sergey Nikolayevich, prof.;  
VOKKEN, Gans Gansovich, prof.; GLAGOLEV, Pavel Alekseyevich,  
prof.; ZHEDENOV, V.N., prof.; PETROVSKAYA, L.P., red.;  
VORONINA, R.K., tekhn.red.

[Anatomy of domestic animals] Anatomia domashnikh zhivotnykh  
v trekh chastiakh. Moskva, Gos.izd-vo "Vysshaya shkola." Pt.1.  
[System of the motor organs] Sistema organov dvizheniya. Pod  
red. A.I.Akaevskogo. 1961. 390 p. (MIRA 15:5)  
(Veterinary anatomy)

GEPTNER, Vladimir Georgiyevich; NASIMOVICH, Andrey Aleksandrovich; BAN-  
NIKOV, Andrey Grigor'yevich; NAUMOV, N.P., red.; PETROVSKAYA,  
L.P., red.; PAVLOVA, V.A. ; tekhn. red.

[Mammals of the Soviet Union in three volumes] Mlekopitaishchie  
Sovetskogo Soiuza v trekh tomakh. Moskva, Gos. izd-vo "Vysshaya  
shkola." Vol.1. [Artiodactyls and perissodactyls] Parnokopytnye  
i neparnokopytnye. 1961. 775 p. (MIRA 14:9)  
(Ungulata)

PETROVSKAYA, L.V., dotsent

Relationship between substances in coal, on the one hand,  
and rare and trace elements, on the other hand. Report 1:  
Sorption of germanium by carbonaceous adsorbents. Nauch.  
trudy MGI no. 27:27-34 '59. (MIRA 14:6)  
(Germanium)  
(Adsorption)



PETROVSKAYA, L.V., dotsent

Relationship between substances in coal, on the one hand,  
and rare and trace elements, on the other hand. Report 2:  
Conductance measurements of humic acids in various states  
as regards germanium, yttrium, scandium, etc. Nauch.  
trudy MGI no. 27135-46 '59. (MIRA 14:6)

(Metals, Rare and minor)

(Humic acid--Electric properties)

| 1ST AND 2ND CODES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | PROCESSING AND PROPERTIES INDEX |  | 3RD AND 4TH CODES     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|-----------------------|--|
| <p><b>1A PETROVSKAYA, L V</b></p> <p>Lyophilic colloids. XVI. Aging and gelation of lyophilic colloids. S. M. Lipatov and L. V. Petrovskaya. <i>Colloid J. (U. S. S. R.)</i> 4, 327-33(1968); cf. C. A. 32, 19429i.—Two fractions of gelatin were prepd. The first was sol. in water and at 16° less viscous than the second one which was insol.; at 50° their viscosities in H<sub>2</sub>O were identical. The viscosity, and especially the abnormal part of it, of eq. solns. of mixts. of both fractions was less than the sum of the single viscosities. Addn. of the first fraction reduced the rate of aging of the second one, as measured by its viscosity. When the second fraction was washed and redissolved again, it became partly sol. in water, while the viscosity of its solns. was lower in accord with the observation that sol. fractions decrease the viscosity of the insol. ones. In the course of aging gelatin particles grow and immobilize more water. J. I. R.</p> |  |                                 |  |                       |  |
| <p>ASB-51A METALLURGICAL LITERATURE CLASSIFICATION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |  |                       |  |
| SOURCE SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | SUBJECT HIR ONLY CODE           |  | RELATION?             |  |
| SOURCE SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | SUBJECT HIR ONLY CODE           |  | RELATION? ONE ONLY IS |  |

РЕЗЮМЕ V.

ГЕРМАНИИ И НЕКОТОРЫЕ РЕДКИЕ  
И РАССЕЯННЫЕ ЭЛЕМЕНТЫ В УГЛЕ  
И. А. Монаховский, А. В. Андреевский, Е. Ю. Ваврик,  
С. А. Герасим, Л. В. Петровская

VIII Mendeleev Congress for General and Applied Chemistry in  
Section of Chemistry and Chemical Technology of Fuels,  
publ. by Acad. Sci. USSR, Moscow 1979

abstracts of reports scheduled to be presented at above mentioned congress,  
Moscow, 15 March 1979.

1. PETERSON, P.

2. USIA (IA)

3. American Library

7. ... ..

9. Monthly List of Russian Accessions, Library of Congress, \_\_\_\_\_ 1953, Unclassified.

PETROVSKAYA, M.B.

Some uniqueness theorems for series according to Haar's system.

Vest. Mosk. un. Ser. 1: Mat., mekh. 19 no.5:15-28 S-O '64.

(MIRA 17:12)

1. Kafedra teorii funktsii i funktsional'nogo analiza Moskovskogo universiteta.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610017-9

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240610017-9"



PETROVSKAYA, M.N.

New state standards for wood-cutting tools. Der i lesokhiz.prom.  
3 no.8:9-12 Ag '54. (MLRA 7:8)

1. Proizvodstvenno-tekhnicheskoye upravleniye po lesopileniyu i  
derevoobrabotke Minlesproma SSSR.  
(Woodworking machinery)



PETROVSKAYA, Marianna Nesterovna; ROZHKOV, D.S., redaktor; SIDEL'NIKOVA, L.A.  
SHITS, V.P., tekhnicheskii redaktor

[Mechanizing the swaging of teeth on framing saws] Mekhanizatsiia  
plushchbeniia zub'ev rabnykh pil Moskva, Gosizdat, 1955.  
65 p. (MLRA 9:3)

(Saw filing)

PETROVSKAYA, M.N., redaktor; PITERMAN, Ye.L., redaktor izdatel'stva;  
KOLESNIKOVA, A.P., tekhnicheskij redaktor

[Innovations in the technique of using wood cutting tools] *Novoe  
v tekhnike ekspluatatsii derevorezhushchego instrumenta*. Moskva,  
Goslesbumizdat, 1956. 178 p. (MLRA 9:9)

1. Nauchno-tekhnicheskoye obshchestvo lesnoy promyshlennosti.  
(Woodworking machinery)

PETROV, Y. V.

Technical progress in the rubber industry. Tr. from the Russian. r. 16.  
TIZHNA PROMISHLENOSTI. (Mishlenitsivna na tozskata promishlenost)  
Sofia. Vol. 4, no. 2, 1966

SOIPO: East European Accessions List, (n. 1), Library of  
Congress, Vol. 5, no. 12, December 1966

EPSHTEYN, T.G.; PETROVSKAYA, M.E., red.; BEL'CHENKO, N.I., red. izd-v8.;  
BACHURINA, A.M., tekhn. red.

[Model SV-9 nine-spindle drill; "Lumber industry and forestry"  
pavilion] Deviatishpindel'nyi sverlil'nyi stanok (model' SV-9);  
pavil'on "Lesnaya promyshlennost' i lesnoe khoziaistvo." [Moskva,  
1957] folder (1 p.) (MLR 11:11)

1. Moscow. Vsesoyuznaya promyshlennaya vystavka.  
(Drilling and boring machinery)

USSR/Cultivated Plants. Potatoes. Vegetables. Melons.

Abs Jour: Ref Zhur-Biol., No 5, 1953, 20335.

Author : V. Petrovskaya.

Inst : Not given.

Title : Cultivating Vegetables on the Turf Lowlands. (Vyrashchi-  
vanniye ovoshechey na torfyanykh poznyakh).

Orig Pub: Sad i ogorod, 1957, No 6, 21-22.

Abstract: No abstract.

Card : 1/1

PETROVSKAYA, Marianna Nesterovna; GNEDKOV, N.Ye., red.; STRATILATOVA,  
K.I., red.izd-va; KUZNETSOVA, A.I., tekhn.red.

[Prospects for the expansion of the lumber and woodworking  
industries] Perspektivy razvitiia lesopil'noi i derevoobra-  
batyvaiushchei promyshlennosti. Moskva, Goslesbumizdat, 1960.  
123 p. (MIRA 13:10)  
(Woodworking industries)

PETROVSKAYA, M.N.

Trends in the mechanization of operations in sawmills. *Biul.tekh.-*  
*ekspluatacyi. no.9:52-57 '61.* (MIRA 1961)  
(Sawmills--Technological innovations)

E 15648-63

EWP(k)/EWP(q)/EWT(m)/BDS

AFRIC/ASD Pr-4 JD  
8/0286/63/000/002/0027/0027

ACCESSION NR: AF3000841

AUTHOR: Vyastakh, V. Z.; Kaplanskiy, S. I.; Libakov-Livanov, V. V.;  
Petrovskaya, M. P.; Savin, V. A.

TITLE: Device for diffusion welding of metals, Class H 05b; 21h, 32 sub 01.  
No. 152716

SOURCE: Byul. izobreteniy i tovarnykh znakov, no. 2, 1963, 27

TOPIC TAGS: diffusion welding, forevacuum pump, diffusion pump, welding

ABSTRACT: Device for diffusion welding of metals in accordance with Author's Certificate No. 136837; its distinguishing feature is that in order to increase the productivity and improve the quality of the welding, each working chamber of the device is connected with an independent forevacuum and diffusion pump and is provided with a cooling system. Orig. art. has: 1 figura (see Enclosure 1)  
Abstractor's note: complete translation.

ASSOCIATION: none

SUBMITTED: 22 Feb 62

SUB CODE: MD, ML

Cord 1/2/

DATE ACQ: 28 May 63

NO REF SOV: 000

ENCL: 01

OTHER: 000



S/123/62/000/007/010/016  
A004/A101

AUTHORS: Vysotskiy, V. Z., Petrovskaya, M. P.

TITLE: Automatic for the vacuum-metallizing of ceramic resistance bases of the MMT (MLT) type.

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 7, 1962, 37-38, abstract 7B200 ("Tr. Projektn. tekhnol. i n.-i. in-ta. Gor'kovsk. sovnarkhoz", 1961, no. 2(8), 3-13)

TEXT: The authors describe the design of a 10-position merry-go-round-type automatic for metallizing resistances in high vacuum developed by PTNII. The automatic has been designed as a 10-position merry-go-round installation of the rotor type. It consists of 3 individual assemblies which are connected among each other: the merry-go-round-type installation proper with vacuum chambers, mechanical drive from the control device, and a control and signaling panel. The merry-go-round diameter is 2.2 m, the height of the automatic with the cover being open is 2.85 m, the overall dimensions of the control panel are 1.3 x 0.8 x 1.7 m, the automatic weighs 3 tons. All technological operations on the automatic are connected with the rotation of the merry-go-round: each production

Card 1/3

S/123/62/000/007/010/016  
A004/A101

Automatic for the vacuum-metallizing ...

discharge is taking place in the rarefaction range of 1 to  $1 \cdot 10^{-2}$  Hg. The maximum current during the discharge is 0.5 amp. A luminescence of ionized residual gas can be observed in the vacuum chamber during the glow discharge. The planned capacity of the automatic is 55 - 200 thousand pieces in 7 hours working time depending on the electric capacity of the ceramic resistances.

[Abstracter's note: Complete translation]

Card 3/3

S/044/6\*/000/00\*/010/013  
0001/0222

AUTHOR: Petrovskaya, M.S.

TITLE: A new estimation of the radius of convergence of the series of Hill

PERIODICAL: Referativnyy zhurnal. Matematika. no. 1, 1961, 67.  
abstract B 328 ("Byul. In. ta teo. astron. AN SSSR". 7, no. 6, 441-465) (1959)

TEXT: The author gives a method for the estimation of the radius of convergence of power series which satisfy infinite systems of the kind  $y_1 = x f_1(x, y_1, y_2, \dots)$  ( $1 \leq i \leq \infty$ ) where  $f_i(x, y_1, y_2, \dots)$  are power series of a countable number of variables  $x, y_1, y_2, \dots$ . The method generalizes the corresponding results of Wintner. With the aid of this method the author proves the convergence of the series of Hill in the lunar theory for  $\lim_{n \rightarrow \infty} \epsilon_n = 0$ .

[Abstracter's note: Complete translation]

Card 1/1

PETROVSKAYA, M.B.

Evaluation of the theoretical and experimental data on the  
senting a periodic signal. The results of the analysis of the  
problem. Biol. Inst. (Moscow) 1973, 10, 1-10.

PETROVSKAYA, M.S.

Evaluating the region of the phase space of bodies representing  
the periodic solution of the first kind in the plane restricted  
problem of three bodies in case of an interior motion. *Matl. list.*  
*teor. astron.* no. 2:89-17 '63. 16: 1  
(Problem of three bodies)

PEREKVSKAYA, M.S.

Evaluating the region of the convergence of series representing  
the periodic solution of the first kind in the plane restricted  
problem of three bodies in case of an external action. Izv.  
Inst.teor.astron. 9 no.2:118-119 '63. (MIA 16:1)  
(Problem of three bodies)

ACCESSION NR: AT4040372

S/2511/63/009/004/0257/0273

AUTHOR: Petrovskaya, M. S.

TITLE: Evaluations of the residual terms of the Hill series

SOURCE: AN SSSR. Institut teoreticheskoy astronomii. Byulleten', v. 9, no. 4(107), 1963, 257-273

TOPIC TAGS: astronomy, theoretical astronomy, celestial mechanics, Hill series, Hill lunar theory, moon

ABSTRACT: The solutions of the differential equations of motion of celestial bodies have the form of infinite series. In determining the orbits of any celestial body, it is customary to use the approximate values of the coordinates, obtained by computation of the first few terms of the corresponding series. In thus replacing infinite series by finite series it is assumed that the error involved is small. This is the approach used by Hill in presentation of his series in the theory of lunar motion, published in 1905. The purpose of this new paper is to estimate the neglected terms in the Hill series. The power series in  $m = \frac{n_0}{n_1 - n_0}$  is considered, where  $n_0$  and  $n_1$  are the mean motions of the sun and

Card 1/2

ACCESSION NR: AT4040372

moon. The series is replaced by polynomials of the 2d, 3d, 4th, 5th, and 6th powers of  $m$ . Similar evaluations are made for the Hill series expanded in  $m^2$  which were presented in a paper by Lyapunov (Lyapunov A. M., *Sobr. soch.*, I, Moscow, Izd-vo AN SSSR, 1954). All evaluations are made for the case  $|m| \leq \sigma$  ( $\approx 0.080849$ ), where  $\sigma$  is the value of the parameter  $m$  for the moon. Orig. art. has: 126 formulas and 1 table.

ASSOCIATION: Institut teoreticheskoy astronomii AN SSSR (Institute of Theoretical Astronomy, AN SSSR)

SUBMITTED: 12Jan63

DATE ACQ: 30Jun64

ENCL: 00

SUB CODE: AA

NO REF SOV: 003

OTHER: 003

Card 2/2



L 47317-66 EWT(1)/EMP(m)/T CW  
ACC NR: AR6028392

SOURCE CODE: UR/0269/66/000/005/0010/0010

AUTHOR: Petrovskaya, M. S.

TITLE: Region of convergence of Fourier series for perturbation function in a two-dimensional bounded problem of three bodies

SOURCE: Ref. zh. Astronomiya, Abs. 5.51.81

REF SOURCE: Byul. In-ta teor. astron. AN SSSR, v. 10, no. 6, 1965, 385-411

TOPIC TAGS: planet, Fourier series, perturbation function, planetary orbit, Kepler elements, angular variable

ABSTRACT: The perturbation function depends on many parameters and its angular points, such as functions of angular variables, are not expressed in their finite form through Kepler's elements. Therefore, until now the solution to the problem of evaluating errors in the expansion of the perturbation function was in its approximate form based on purely intuitive considerations and not on the basis of

UDC: 521.133.134



MATYUSHA, A.G.; YEGOROV, A.S.; PETROVSKAYA, M.V.

Investigating alcohol losses and impurities in the return of the  
ether-aldehyde fraction to the production in molasses distilleries.  
Trudy Ukr.NIISP no.8:48-59 '63. (MIRA 17:3)



PETROVSKAYA, M.Ye., starshiy nauchnyy sotrudnik

Results of extra-articular arthrodesis in tuberculous coxitis. Ortop.,  
travm. i protez. 17 no.3:32-36 My-Je '56. (MIRA 9:12)

1. Iz Leningradskogo instituta khirurgicheskogo tuberkuleza (dir. -  
deystvitel'nyy chlen AMN SSSR prof. P.G.Kornev)  
(TUBERCULOSIS, OSTEOARTICULAR,  
hip, surg., extra-articular arthrodesis (Rus))

PETROVSKAYA, M.Ye., starshiy nauchnyy sotrudnik

Radical surgical treatment in combined forms of osteoarticular tuberculosis. Ortop.travm. i protez. 20 no.3:17-20 Mr '50.  
(MIRA 12:6)

1. Iz Leningradskogo instituta khirurgicheskogo tuberkuleza  
(dir. - deystvitel'nyy chlen AMN SSSR prof.P.G.Kornev).  
(TUBERCULOSIS, OSTEOARTICULAR, surg.  
radical surg. in combined ther. (Rus))

PETROVSKAYA, M.Ye. (Leningrad, Ligovskiy pr., d. 87, kv.23)

Radical surgical operations in advanced tuberculous coxitis with extensive destruction [with summary in English]. Vest.khir. 82 no.3:15-20 Mr '59. (MIRA 12:4)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta khirurgicheskogo tuberkuleza (dir. - prof. P.G. Kornev).

(TUBERCULOSIS, OSTEOARTICULAR, surg.

hip, radical surg. in advanced cases with extensive destruction (Rus))

(HIP, dis.

tuberc., radical surg. in advanced cases with extensive destruction (Rus))

KUPARADZE, M.L., kand.med.nauk (Leningrad, K-21, Institutskaya ul., d.6);  
PETROVSKAYA, M.Ye.; KOVALENKO, D.G., prof.

Surgical treatment of fistulous forms of tuberculous coxitis  
[with summary in English]. Vest.khir. 82 no.3:20-25 Mr '59.

(MIRA 12:4)

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta khirurgicheskogo tuberkuleza (dir. - prof. P.G. Kornev).

(TUBERCULOSIS, OSTEOARTICULAR, surg.

hip of fistulous forms (Rus))

(HIP, dis.

tuberc., surg. of fistulous forms (Rus))



For Review Only

U-7

USSR / Pharmacology, Toxicology, Chemotherapeutic Agents

Abs Jour : Ref. Zh. Biol., No 2, 1958, No 8110

Author : Golub, N.F. Petrovskaya, N.B.

Inst :

Title : Intestinal Hormesis in the Biomycin Therapy of Dysentery

Orig Pub : V sb.: Antibiotiki. Eksperim.-Klinich. izuch. M., 1956,  
304-310

Abstract : In 210 patients with dysentery there was an alteration of the normal intestinal flora with a sharp depression of *E. coli* and an intense multiplication of the genus *Proteus*. Hormesis appeared on the 3rd - 4th day following the onset of treatment and persisted for 15 - 20 days depending on the duration of therapy. The hormesis in the majority of patients influenced extensively neither the

Card : 1/2

RUKIN, V.F.; PETROVSKAYA, N.I.; ARTYUKHOV, P.I. aironom po zashchite rasteniy

Method for trapping insects. Zashch.rast.ot vred. i bol. no.4:  
40-41 J1-Ag '59.

(MIRA 16:5)

(Insect traps)

PETROVSKAYA, N.I.

Effect of convulsive seizure on higher nervous activity.  
Fiziol.shur. 41 no.3:334-338 My-Je '55. (MLRA 8:8)

1. Oblastnoy nauchno-issledovatel'skiy pediatricheskiy  
institut, Rostov-na-Donu.  
(CENTRAL NERVOUS SYSTEM, physiology,  
eff. of exper. convulsions on higher nervous  
funct. in dogs)  
(CONVULSIONS, experimental,  
higher nervous funct. in dogs)

PETROVSKAYA, N.I.

Effect of direct electrical excitation of various subcortical cerebral formations on conditioned reflexes in puppies. Fiziol. zhur. 48 no.4:428-435 Ap '62. (MIRA 15:6)

1. Nauchno-issledovatel'skiy institut akusherstva i pediatrii, Rostov-na-Donu.

(CONDITIONED RESPONSE)  
(BRAIN)

PETROVSKAYA, N.I.

Possibility of applying the salivary method to the study of the  
higher nervous activity in young dogs. Biul. eksp. biol. i med.  
42 no. 11: 74-76 N '56. (MLRA 10:1)

1. Iz Rostovskogo oblastnogo pediatricheskogo instituta (i.o. dir. -  
prof. I.Ya. Serebriyskiy, nauchnyy rukovoditel' deystvitel'nyy chlen  
AMN SSSR N.A. Rozhanskiy) Predstavleno deystvitel'nyy chlenom AMN  
SSSR N.A. Rozhanskim.

(REFLEX, CONDITIONED,

technic of salivary reflexes in young dogs (Rus))

PETROVSKAYA, N.I.

Conditioned alimentary salivation reflexes in normal puppies and  
under conditions of thiamine deficiency. *Viziol. zhur.* 11:4.  
3:202-211 Mr '58. (MIRA 11:4)

1. Nauchno-issledovatel'skaya institut akusherstva i pediatrii  
Minzdrava RSFSR, Rostov-na-Donu.  
(VITAMIN B<sub>1</sub> DEFICIENCY, experimental  
eff. on conditioning to salivation reflex in dogs (Rus)  
(REFLEX, CONDITIONED  
salivation reflex, eff. of exper. vitamin B<sub>1</sub> defic. in  
dogs (Rus)

YAKUTSENI, V.P.; PETROVSKAYA, N.L.

Distribution of the zones of regional petroleum accumulation in the  
earth. Sov. geol. 8 no.1:110-13. Jan '68.

MIRA 18 30

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvednyy  
institut.

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BOLGOV, G.P.; VEITS, B.I.; ~~PETROVSKAYA, N.M.~~; POKROVSKAYA, I.V.; ROZYBAKIYEVA, N.A.; TASHCHININA, M.V.; SERGIYEV, N.G., otvetstvennyy redaktor; SUVOROVA, R.I., redaktor; ~~ALFEROVA, P.P.~~, tekhnicheskiy redaktor

[Mineralogy of semimetal deposits of the Rudnyy Altai; in three volumes] Mineralogiia polimetallicheskih mestorozhdenii Rudnogo Altaia; v trekh tomakh. Sost. G.P.Bologov i dr. Alma-Ata, Vol. 1. Veits, B.I., Pokrovskaia, I.V.; Bolgov, G.P. [Minerals of Rudnyy Altai (elements, sulfides, sulfo salts)] Mineraly Rudnogo Altaia (elementy, sul'fidy, sulfosoli). 1957. 343 p. (MLRA 10:8)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut geologicheskikh nauk. 2. Chlen-korrespondent Akademii nauk Kazakhskoy SSR (for Sergiyev)  
(Altai Mountains--Metals)

BOLGOV, G.P.; VEYTS, B.I.; PETROVSKAYA, N.M.; POKROVSKAYA, I.V.;  
ROZYBAKIYEVA, N.A.; TASHCHIBINA, M.Y.; SERGIYEV, E.G., otvetstvennyy  
red.; SUVOROVA, R.I., red.; ALFEROVA, P.F., tekhn.red.

[Mineralogy of complex deposits in the Rudnyy Altai] Mineralogiia  
polimetallicheskih mestorozhdenii Rudnogo Altaia; v trekh tomakh.  
Sost. G.P.Bolgov i dr. Alma-Ata. Vol.2. Bolgov, G.P., and others.  
[Minerals in the Rudnyy Altai (halides, oxides, oxysalts)]  
Mineraly Rudnogo Altaia (galozenidy, okisly, kislородnye soli).  
1957. 423 p. (MIRA 11:1)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut geologicheskikh  
nauk. 2. Chlen-korrespondent Akademii nauk Kazakhskoy SSR (for  
Sergiyev).

(Altai Mountains.-Mineralogy)

Translation from: Referativnyy zhurnal Metallurgiya 1958, No. 12, pp. 1-4 USSR

AUTHORS: Polyvyannyi I. R. Monchik V. K. Solovyeva V. D. Petrovskaya N. M.

TITLE: A Contribution to the Problem of Sulfur Compounds and the Phase Composition of Lead Sinters (K voprosu o sovedineniyakh sernykh i fazovom sostave svintsovykh aglomeratov)

PERIODICAL: Izv. AN KazSSR Ser. gorn. dela, metallurgiya, stroitel'stvo i khim. materialov 1957, No. 5 (16), pp. 80-85

ABSTRACT: The methods of chemical mineralogy are used to investigate Chinese Lead-plant sinter with the purpose of studying the question of sulfur compounds and the phase composition thereof. In the course of sintering the bulk of the sulfides become Pb and Zn silicates, ferrites of the plumboferrite and magnetoplumbite type, and more complex systems yielding Pb-Zn-lime-iron glass. Also observed is a considerable number of inclusions representing the residual grains of concentrates and fluxes. Limestone, quartz, barite, feldspars, galena, and, more rarely, sphalerite and bornite. S is present in the sinter

Card 1/2

A Contribution to the Problem of Sulfur Compounds and the Phase (C) ...  
 in 2 forms. The sulfide, owing to the presence of ...  
 (primarily galena) and exceedingly fine precipitates ...  
 and, more rarely, of Pb and Cu, and the sulfate in the form of fragmental ...  
 als (barite) and newly-formed sulfates (anhydrite, gypsum, semianhydrite, Ca sulfate  
 and plumbojarosite).

1-18

Card 2/2

VEYTS, B.I.; BOLGOV, G.P.; PETROVSKAYA, N.M.; POKROVSKAYA, I.V.;  
ROZYBAKIYEVA, N.A.; TASHCHININA, M.V.; SERGIYEV, N.G.,  
otv.red.; SUVOROVA, R.I., red.; ALFEROVA, P.F., tekhn.red.

[Mineralogy of complex metal deposits in the Rudnyy Altai]  
Mineralogiia polimetallicheskih mestorozhdenii Rudnogo  
Altaia; v trekh tomakh. Sost. G.P.Bolgov i dr. Alma-Ata.  
Vol.3. [Mineralogy of the Rudnyy Altai; geological and  
mineralogical characteristics of complex metal deposits in  
the Rudnyy Altai] Mineralogiia Rudnogo Altaia; geologo-mine-  
ralogicheskaya kharakteristika polimetallicheskih mesto-  
rozhdenii Rudnogo Altaia. 1959. 487 p. (MIRA 13:2)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut geolo-  
gicheskikh nauk. 2. Chlen-korrespondent Akademii nauk Ka-  
zakhskoy SSR (for Sergiyev).  
(Altai Mountains--Mineralogy)

3(5)

AUTHORS: Daryov, A.Y., Daryov, A.Y., Daryov, A.Y.  
 TITLE: Khondz' Krasn in the Devonian Rayon Devonian  
 period v Devonian rayon

PERIODICAL: Vestnik Akademii nauk SSSR, 1978, No. 1,  
 11-12 - C (USSR)

ABSTRACT: This article is a report on the site, description and  
 and genesis of a special siliceous rock field dis-  
 covered by the geologist A.Y. Daryov in the south-  
 eastern part of the Revnyushinskaya anticline in the Rev-  
nyushinskaya antisklinal'noye struktura, in the Dev-  
onian Rayon. In this position, the site of the  
 ore field of the Grekhovskaya group Grekhovskaya group  
 of polymetallie layers, the rock list of the field  
 grained micaceous rock in the form of a rock, the  
 mass of pelitic color, and so on to the rock. In all  
 now six outcrops in different layers have been estab-  
 lished, which are attributed to the thick sedimentary-  
 volcanic rock layer of the middle Devonian period.

Card 1/3

Phenrite Rocks in the Turgay Rayon

07/01-01-01/17

A chemical analysis of a new mineral, phenrite, was carried out by R.I. Kemerovskaya of the chemical laboratory of IGN of the Kazakh AS. Upon a comparison of the data of the chemical analysis (see table of article) to the crystallo-chemical formula of the rate of 12 oxygen atoms, according to the method of V.S. Solov'ev, the following formula was obtained:

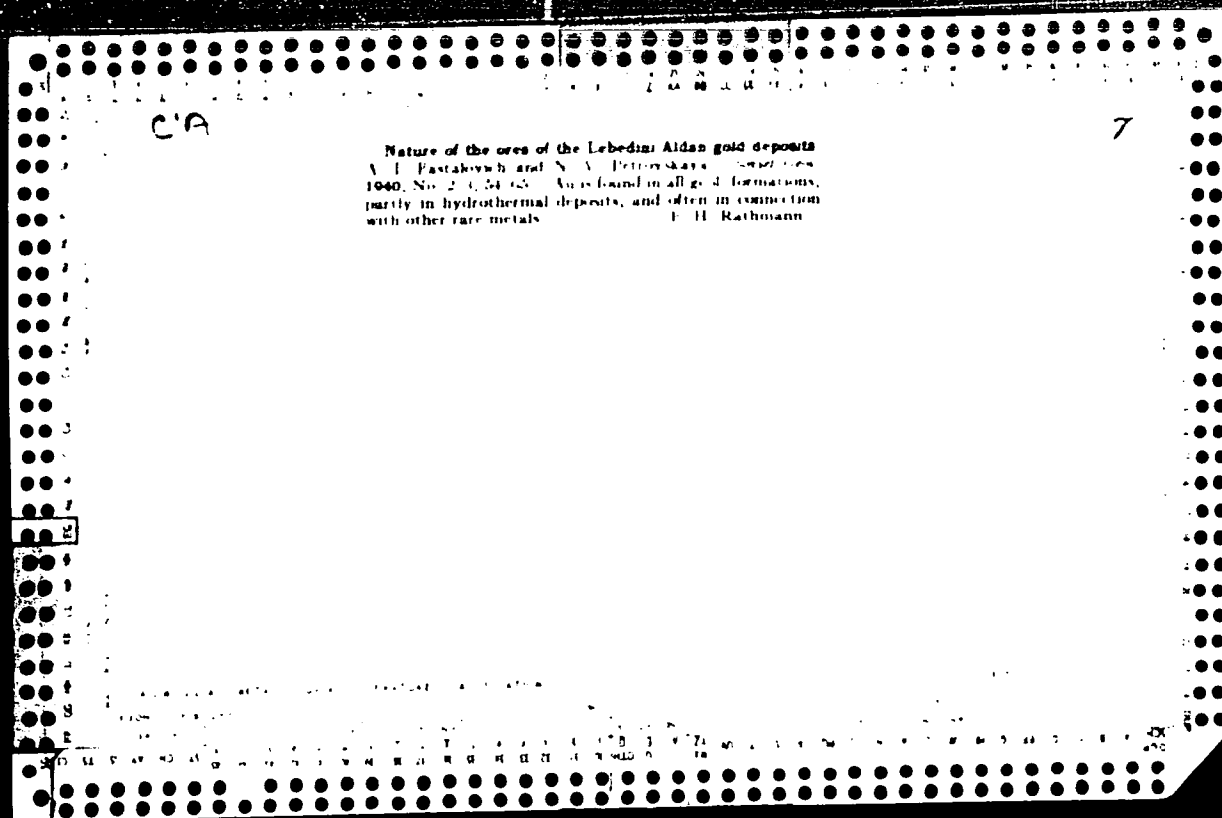
$$K_{0.4}Na_{0.6}H_2O_{0.4}Mg_{0.1}Al_{1.9}(H,Al)_2Si_{1.9}O_{12}$$

Micro varieties with a high content of silica and more are called phenites by A.S. Kemerov and other scientists. They consider them as an intermediate variety between microcline and orthoclase with the substitution of the aluminum component in place in the tetrahedral group. Such a substitution is due to a corresponding potassium restriction in the mineral. with full substitution of aluminum for silica, which causes the disappearance of microcline, orthoclase is obtained. On the basis of their analysis of the characteristics of the new mineral, the authors maintain that the full formula is established:

Card 1/3







Sulvanite from the Lebedinoye gold ore deposit - Aldan. N. V.  
 Petrovskaja (Compt. rend. Acad. Sci. U. R. S. S. R. 1941, 22, 424)  
 426. Aldan sulvanite (I) contains As 3.60, Ag 7.16, Cu 49.40, S  
 31.06, SiO<sub>2</sub> not determined, total 94.30%, and spectroscopic amounts  
 of Pb, Bi, Sb, and Ag is 5.37%. Aldan (I) is a variety repre-  
 senting an isomorphous mixture of sulvanite and a green modification  
 of enargite. [S. 1]

Morphology and structure of "new" gold. N. A. Petrovskaja  
*Sov. Geol. Acad. Sci. U.S.S.R.* 1941 **22**, 427-429. Au re-  
deposited in a placer occurs frequently in Au placers of the Aldan,  
Tcha, and Dyalinda Urkan regions, affecting the size, shape, and  
composition of the placer Au. The morphology of this "new" Au  
is described.

PETROVSKAYA, N.V.

Importance of productive mineral associations for exploring  
and prospecting for gold ore deposits. Razved.i okh.nedr  
21 no.2:17-24 Mr-Ap '55. (MLRA 9:12)

(Gold ores)

PETROVSKAYA, N. V.

Producing mineral associations in gold ore deposits. Zap. Vses. min.  
ob-va 84 no. 3:290-307 '55. (MLRA 8:11)

1. Nigrizoloto, Moscow  
(Gold ores)

PETROVSKAYA, N.V.

Some instances of spatial combination of variously typed endogene-  
tic mineral formations. Zap.Vses.min.ob-va 85 no.3:321-332 '56.  
(MLRA 9:11)

1. Nauchno-issledovatel'skiy institut Ministerstva tsvetnoy metal-  
lurgii "Nigrizoloto," Moskva.  
(Yenisei Ridge--Ore deposits)

$3(\varepsilon)$ 

AUTHORS: John V. Kozmin, Ph.D., University of Illinois, U.S.A.  
Christina E. S.

TITLE: Experimenting Sulfur Isotope Analysis in the Laboratory  
of the Chalcopyrite Deposit of Uraly (Southern Ural)  
(Sulfur Isotope Analysis in the Laboratory of the Chalcopyrite  
Deposit of Uraly (Southern Ural) (Sulfur Isotope Analysis in the  
Laboratory of the Chalcopyrite Deposit of Uraly (Southern Ural))

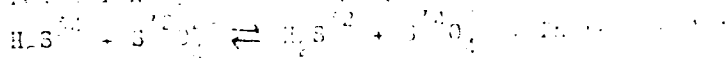
PERIODICAL: Geokhimiya, 1966, No. 1, pp. 737-744, 10 refs.

ABSTRACT: 44 samples of sulfides and sulfates from the Ural Mountains were examined. The  $S^{32}/S^{34}$ -ratio was determined with the mass spectrometer MS-3. Sulfur from the meteorite of Sikhote-Alin was used as standard, its isotope ratio amounting to 22.30. The results and their deviations for the standard are recorded in a table. The isotope ratios show considerable deviations which do not depend on the type of mineral or on the region. This is indication of different stages of ore formation. Layers of massive and interspersed ores and the ore isotope ratios and therefore can be classified into the sequence of formation. The subsequent ore-bearing mineralization led to

$$\text{Ca:d } 1\frac{1}{2}$$

Experiments conducted in the laboratory of the Institute of Chemistry of the USSR Academy of Sciences, Moscow, U.S.S.R.

In isotope fractionation experiments, the following reaction was studied:



The equilibrium constant was determined.

ASSOCIATE N. The author is grateful to the Institute of Chemistry of the USSR Academy of Sciences, Moscow, U.S.S.R. for the use of the Central Scientific Research Institute for the production of heavy isotope compounds.

SUBMITTED: 1981.10.11

Card 2, 2



PETROVSKAYA, N.V.

Role of tectonic factors in the formation of the pyrite ores of pyrite ores. Geol. raz. Vestorozn. v no.4:14-32 (1961) 14.

1. Institut geologii i kvan. geol. v. 1, Leningrad, 1961.  
1. 14-32, 14-32.

PETROVSKAYA, N.V.; KLIMENKO, N.G.; GINZBURG, A.I., nauchnyy red.;  
YERSHOV, A.D., glavnyy red.; CHERNOSVITOV, Yu.L., zam. glavnogo  
red.; SHMANENKOV, I.V., zam. glavnogo red.; ZVEREV, L.V., red.;  
ZURAREV, N.N., red.; KREYTER, V.M., red.; MOXROUSOV, V.A., red.;  
SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; STOMEROV, A.G.,  
red. izd-va; IVANOVA, A.G., tekhn. red.

[Industrial requirements for the quality of mineral raw materials;  
handbook for geologists] Trebovaniia promyshlennosti k kachestvu  
mineral'nogo syr'ia; spravochnik dlia geologov. Izd. 2., perer.  
Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr.  
No. 71. [Selenium and tellurium] Selen i tellur. Nauchn. red. A.I.  
Ginzburg. 1960. 45 p. (MIRA 14:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mine-  
ral'nogo syr'ya.  
(Selenium ores) (Tellurium ores)

PETROVSKAYA, N.V.

Mineral associations and some factors controlling the formation  
of pyrite deposits in the Southern Urals. Geol. rud. mestorozh.  
no.2:23-44 Mr-Ap '61. (MIRA 14:5)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralologii  
i geokhimii AN SSSR, Moskva.  
(Ural Mountains--Pyrites)

PETROVSKAYA, N.V.; GRINENKO, L.N.

Study of the isotope composition of elements in connection with  
the genesis of ore deposits. Geol.rud.mestorozh. no.2:3-31  
Mr-Apr '67. (MIRA 15:4

1. Institut geologii rudnykh mestorozhdeniy, petrografii,  
mineralologii i geokhimii AN SSSR, Moskva, i Tsentral'nyy nauchno-  
issledovatel'skiy gornorazvedochnyy institut, Moskva.  
(Ore deposits) (Isotopes)

1. The first part of the document is a list of the

main points of the document. The first point is that the

PETROVSKAYA, N.V.

Classification of mineral associations occurring during hydrothermal  
ore formation. Geol. nat. mestorozh. S no.113-114, 1965, 1966, 1967, 1968, 1969.

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i geokimii AN SSSR, Moskva.

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PETROVSKAYA, R.V.; SHATALOV, Ye.T.;

[Study of the characteristics of the distribution of mineralization in metallogenetic research on ore regions; basic principles of metallogenetic research and the compilation of metallogenetic and prognostic maps of ore deposits] Izuchenie zakonornostei razmeshchenia mineralizatsii pri metallogenicheskikh issledovaniyakh rudnykh raionov; osnovnye printsipy metallogenicheskikh issledovaniy i sostavleniia metallogenicheskikh i prognoznnykh kart rudnykh raionov. Moskva, Nedra, 1966. 302 p. (MIRA 18:7)

RICHENKO, N.I., kandidat meditsinskikh nauk (Kiyev); PETROVSKAYA, N.V.  
(Kiyev); POBMAZYUK, V.I. (Kiyev)

Biomycin for treating acute dysentery in adults. Klin.med. 34  
no.7:91 J1 '56. (MLRA 9:10)

1. Iz klinicheskogo otdeleniya (sav. - prof. G.I.Khomenko) Instituta  
infektsionnykh bolezney AMN SSSR (dir. - chlen-korrespondent AMN  
SSSR prof. I.L.Bogdanov)  
(AURMOMYCIN) (DYSENTERY)



PETROVSKAYA, N.V.; GOLUB, N.F. (Cand. of Med. Sci.);

"Intestinal Disbacteriosis During Treatment of Dysenteric Patients with  
Blomycin,"

p. 304 Ministry of Health USSR Proceedings of the Second All-Union Conference on  
Antibiotics, 31 May - 2 June 1957. p. 304, Moscow, Medgiz, 1957.

PETROVSKAYA, O. A.

"Vitamines and Insects", (p. 913) by Petrovskaya, O. A.

SO: Advances in Contemporary Biology (USPEKHI SOVREMENNOI BIOLOGII) Vol. 5, No. 5 1986

**Vitamin E and the vitality of the spermatozoa of insects**  
Studies on *Periplaneta orientalis*. R. A. Kudryashov and  
A. P. Petrovskaya. *Russ. med. entom. expl. Res.* 4,  
1963 2:163. (In German). The elimination of vitamin E  
from the diet (18% casein, 54% starch, 20% lipid, 2% oil  
and liver oil and 4% of Micellolum's salt mixture 18% of male  
*Periplaneta orientalis* for 4-8 months has no effect on the  
vitality of the mature spermatozoa of the insects. If the  
rate of insects on a vitamin E-free diet and of those on a  
normal diet and on one rich in vitamin E did not cause  
fertility in female rats on a vitamin E-free diet. Thus

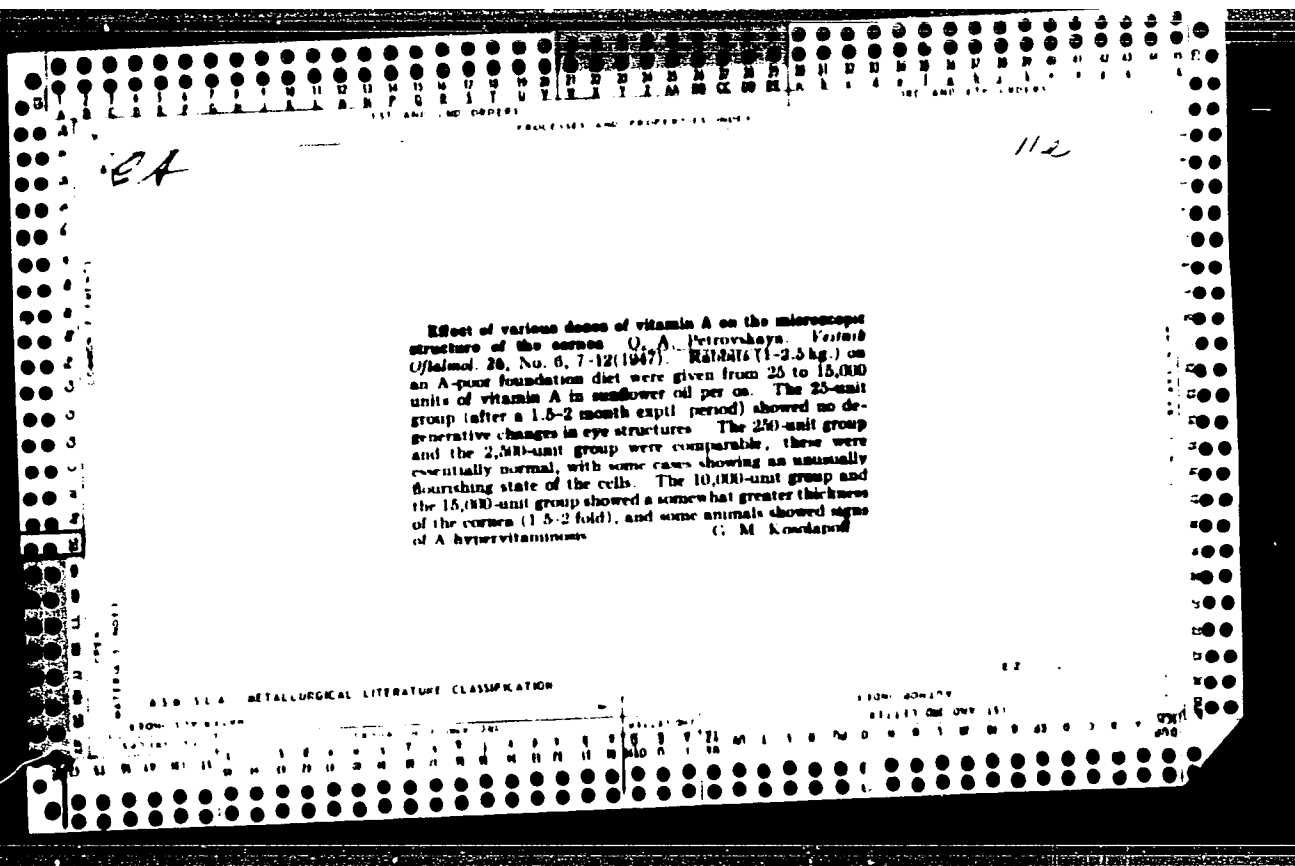
ASB 314 METALLURGICAL LITERATURE CLASSIFICATION

| 1ST AND 2ND ORDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 3RD AND 4TH ORDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><b>CA</b></p> <p><b>Effect of the suprarenal cortex on the metamorphosis of the axolotl</b> M. L. Rokhlina and O. A. Petrovskaya. <i>Problemy Endokrinol.</i> 4, No. 4, 3-10 (1939); Cf. C. A. 34, 4415A. Implantation of cortical tissue, or injection of an emulsion made thereof, calls forth metamorphosis at once. Keeping the axolotl immersed in a suspension prepd. from this tissue, or feeding the cortex produces only exophthalmia. The implantation of cortex tissue does not stimulate the thyroid, rather it induces a hypofunctional state, showing that the thyroid gland does not take part in the metamorphosis resulting from the cortex implantation. Metamorphosis is a reaction of the larval organs of the axolotl in response to the change of the acid-base balance of its system. Normally this change in pH is produced by increased thyroid activity, but in this case it is believed to be the result of the decompos. of cortical tissue within the body. It is distinguished from the normal metamorphosis by the fact that it is intensive only in the beginning and then is retarded in action. This retardation is the result of the influence of the cortical hormone, which is known to suppress all metabolism, and to depress thyroid activity. The cortex from normal white mice was more effective than the cortex from thyroidectomized mice (which produced only exophthalmia) or the cortex from mice fed thyroxine. Implantation of thyroid gland from normal mice in the axolotl also brought about metamorphosis at once. The majority of cases reached the 2nd phase, and in a few cases the process was entirely completed. Implantation of cortex from mice fed thyroxine caused a delayed metamorphosis in 25% of the cases. In 50% it ap-</p> |  | <p>peared at once but stopped at the 1st phase which disappeared in 30 days. Implantation of thyroid into the axolotl in this series gave increased rates of metamorphosis in 40% of the cases and in 30% it was carried to the 3rd phase. The acidosis necessary for the advent of metamorphosis was not due to the thyroid. It is believed that in the decomposed cortex within the axolotl the proteolytic enzymes became activated and the glutathione was set free. This stimulated oxidation-reduction reactions, while the cortical hormone had a retarding action. 73 references. C. S. Shapiro</p> |  |
| <p>ASD-31A METALLURGICAL LITERATURE CLASSIFICATION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <p>130000 170-02100</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <p>130000 170-02100</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| <p>130000 170-02100</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <p>130000 170-02100</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |

| PROCESS AND PROPERTIES INDEX                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| The relation between the thyroid gland and the female                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 genital sphere Histopathology of pregnancy in cases of sterilization with thyroidea (Experiments on white mice) S. I. Teresa and O. A. Petrovskaya. <i>Vopr. Akad. Sel'skokhoz. Nauk V. I. Lenin. 7811 Zhivotnovod.</i> (1939), <i>Chem. Zentr.</i> 1940, II, 2324-5.                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Peroral administration of large doses (1 g.) of thyroidea to white mice, especially at the time of implantation of the ovum, resulted in sterilization. Necrosis of the placenta was observed and in the fetus deformation of the fetal placenta and degeneration of the syncytium occurred. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M. G. Miron                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 4                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 37                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 43                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 44                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 49                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 51                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 54                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 56                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 57                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 58                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 59                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 61                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 63                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 64                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 67                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 69                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 71                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 73                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 74                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 76                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 77                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 78                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 79                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 81                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 83                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 87                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 89                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 91                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 92                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 93                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 96                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 97                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 98                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 99                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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